		/		1673
0/	CRF Err	Corrected by t	he STIC Systems and	h sslng Date:
	ber: 09/545, /		Edited by:	
,Çt	anged a file from non-ASCII	to ASCII	Verified by:	(STIC sta
Ċħ	anged the margins in cases v	where the sequence	text was 'wrapped' down to the	NTERED
Ed	ited a format error in the Curr	ent Application Data	section, specifically:	NICHED
Ed ap _l	ted the Current Application Dilicant was the prior appl	Data section with the lication data; or	actual current number. The n	 `
Λd	ded the mandatory heading a	and subheadings for	"Current Application Data".	JUL 2 4 2001
Edi	ted the *Number of Sequence	es* field. The applica	ant spelled out a number inste	ad JECH CENTEB 1600/2
Cha	anged the spelling of a manda	atory field (the headi	ngs or subheadings), specifica	ılly <u>:</u>
Cor	rected the SEQ ID NO when	obviously incorrect.	The sequence numbers that v	vere edited were:
Insc	erted or corrected a nucleic n	umber at the end of	a nucleic line. SEQ ID NO's e	edited:
Cor	rocted subheading placemen icant placed a response belo	it. All responses must bw the subheading, the	st be on the same line as each his was moved to its appropria	subheading. If the te place.
Ins	erted colons after headings/s	ubheadings. Headir	gs edited included:	
Del	eted extra, invalid, headings	used by an applican	l, specifically:	· ·
De	eted:	e* at the beginning/e ext;	end of files; secretary initial secretary initial	als/filename at end of file:
Ins	erted mandatory headings, s	pecifically:		· · · · · · · · · · · · · · · · · · ·
	rected an obvious error in th		,	
Edi	led identiliers where upper ca	ase is used but lowe	r case is required, or vice vers	a.
Cor	rected an error in the Numbe		, specifically:	
A 1		inserted by the applic	cant. All occurrences had to b	e deleted.
	ed <i>endIng</i> stop codon in an o a PatentIn bug). Sequence		and adjusted the *(A)Length:*	field accordingly (error
Oth	er: Corrected m	nisaligned	amino acid nur	uber in
	Sequence # 16.			

Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

JUL 2 4 2001

1643

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/545,199C

DATE: 07/19/2001 TIME: 10:36:34

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\07192001\I545199C.raw

see P.5 3 <110> APPLICANT: Lowery E., David Fuller E., Troy Kennedy J., Michael 7 <120> TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions 9 <130> FILE REFERENCE: 28341/6227.1 11 <140> CURRENT APPLICATION NUMBER: 09/545,199C 12 <141> CURRENT FILING DATE: 2000-04-06 14 <150> PRIOR APPLICATION NUMBER: 60/153,453 15 <151> PRIOR FILING DATE: 1999-09-10 17 <150> PRIOR APPLICATION NUMBER: 60/128,689 18 <151> PRIOR FILING DATE: 1999-04-09 20 <160> NUMBER OF SEQ ID NOS: 169 22 <170> SOFTWARE: PatentIn Ver. 2.0 24 <210> SEQ ID NO: 1 25 <211> LENGTH: 1112 26 <212> TYPE: DNA 27 <213> ORGANISM: Pasteurella multocida 29 <220> FEATURE: 30 <221> NAME/KEY: CDS 31 <222> LOCATION: (210)..(1001) 33 <220> FEATURE: 34 <223> OTHER INFORMATION: atpB 36 <220> FEATURE: 37 <221> NAME/KEY: misc_feature. 38 <222> LOCATION: 1099 39 <223> OTHER INFORMATION: n = A or T or G or C 41 <220> FEATURE: 42 <221> NAME/KEY: misc feature 43 <222> LOCATION: 1104 44 <223> OTHER INFORMATION: n = A or T or G or C 46 <400> SEQUENCE: 1 47 gtcaacaaca ttttatggtg gagaggccgt taaatttata tccacaattt ttttgattgt 60 49 acttgctttt aaactgttca attcaatgca ttttattgca ttttttgttg gatattttat 120 51 aacaatagtt ttaaacaata ttcttccatt ttttataagt aagtacttaa atataaagca 180 53 ttttcataaa tatcaataaa ggattagtt atg gca gca gag ctt aca aca gcg 54 Met Ala Ala Glu Leu Thr Thr Ala 55 59 gga tat att ggg cac cat tta gca ttc ttg aaa aca ggg gat tct ttc 60 Gly Tyr Ile Gly His His Leu Ala Phe Leu Lys Thr Gly Asp Ser Phe 15 20 64 tgg cat gtt cat tta gat acc ctt cta ttt tca att tca ggt gca 65 Trp His Val His Leu Asp Thr Leu Leu Phe Ser Ile Ile Ser Gly Ala 30 35 68 att ttt ctt ttt gtt ttt tca aaa gtt gca aaa aaa gca acg ccg ggt 69 Ile Phe Leu Phe Val Phe Ser Lys Val Ala Lys Lys Ala Thr Pro Gly 70 45 50

72 gtg cct agc aag atg caa tgt ttt gtt gag ata atg gtt gat tgg att

RAW SEQUENCE LISTING DATE: 07/19/2001 PATENT APPLICATION: US/09/545,199C TIME: 10:36:34

Input Set : A:\Cpg.pto
Output Set: N:\CRF3\07192001\I545199C.raw

	73 74	Val	Pro	Ser	Lys 60	Met	Gln	Суѕ	Phe	Val 65	Glu	Ile	Met	Val	Asp	Trp	Ile	
		ast	aaa	atc	gta	222	a a a	22t	++0		aat	cct	cat	cat	act	~++	000	473
		-			Val		-						_		_	_		4/3
	78	ASP	СТУ	75	vai	гуз	GIU	ASII		птъ	СТУ	PIO	ALG	85	Ата	vaı	GIA	
		~~~	++-		++-		-++	++-	80	+~~	~+~	***	-++			~~+		E 0 1
					tta													521
		Pro		Ата	Leu	Thr	TTe		Cys	тгр	vaı	Pne		мет	ASII	Ala	TIE	
	82		90					95					100					r.c.0
					cca													569
			Leu	lle	Pro	Val		Phe	Leu	Pro	GIn		Ala	His	Leu	Phe		
		105					110					115					120	
					tta													617
		Ile	Glu	Tyr	Leu	_	Ala	Val	Pro	Thr		Asp	Ile	Ser	Gly		Leu	
	90					125		•			130					135		
	92	ggc	tta	tca	att	ggt	gtc	ttc	ttc	tta	att	att	ttc	tat	aca	atc	aaa	665
	93	Gly	Leu	Ser	Ile	Gly	Val	Phe	Phe	Leu	Ile	Ile	Phe	Tyr	Thr	Ile	Lys	
	94				140					145					150			
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	97	Ser	Lys	Gly	Met	Ser	Gly	Phe	Val	Lys	Glu	Tyr	Thr	Leu	His	Pro	Phe	
	98			155					160					165				
	100	aat	cat	cct	ttg	tta	att	ccg	gtt	aac	: tta	gcg	ctt	gaa	a tca	gto	aca	761
	101	Asn	His	Pro	Leu	Leu	Ile	Pro	Val	Asr	ı Leu	Ala	Let	ı Glu	ı Ser	Val	Thr	
	102		170	)				175					180	)				
	104	tta	tta	qca	aaa	cct	att	tct	tto	qco	r tto	cat	ctt	ttc	g qq	aat	atg	809
																	Meť	
		185			4		190					195			_		200	
				aat	gaa	ctt			att	ctt	att	αca	ato	ato	r tac	ato	gca	857
																	Ala	
	110	_				205					210				1 -	215		
			aat	+++	aca			tca	ato	ı aat			ato	r cat	ttc		tgg	905
																	Trp	,,,,
	114				220					225					230			
			att	++0			ctt	ata	att			саа	aca	+++			atg	953
		-											_				Met	755
	119			235		1.1.0	ыси	· val	240		. DCu	011	1110	245		, 1110	. 1100	
			ctt			a++	tat	++~			, aat	tat	220				cac	1001
		-				_		-	_	_					_	_	His	1001
	123		250		AdT	Val	1 À 1	255		net	. Сту	тут	260		, ATC		111.5	
					+ = = =	~~~	a ~ ~			a at	ctaa	a+++			-a+a	asas	acatta	1061
W>																	acacca	1112
W>					D NO		ac a	acaa	CCat	.c gc	accc	gnaa			.cgc	L		1112
					'H: 2												•	
					PRT													
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					IISM:		ceur	стта	muı		.ua							•
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	137			. т	m.	5		α.	D1.		10		,, .	т -	. 7	15		
			ьеи	ггуѕ		_	Asp	ser	Fue			val	Hls	ь тел			Leu	
	140				20				•	25	)				30			

RAW SEQUENCE LISTING DATE: 07/19/2001 PATENT APPLICATION: US/09/545,199C TIME: 10:36:34

Input Set : A:\Cpg.pto

Output Set: N:\CRF3\07192001\I545199C.raw

```
142 Leu Phe Ser Ile Ile Ser Gly Ala Ile Phe Leu Phe Val Phe Ser Lys
145 Val Ala Lys Lys Ala Thr Pro Gly Val Pro Ser Lys Met Gln Cys Phe
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148 Val Glu Ile Met Val Asp Trp Ile Asp Gly Ile Val Lys Glu Asn Phe
149 65
                                              75
151 His Gly Pro Arg His Ala Val Gly Pro Leu Ala Leu Thr Ile Phe Cys
                     8.5
                                        . 90
154 Trp Val Phe Ile Met Asn Ala Ile Asp Leu Ile Pro Val Asp Phe Leu
                100
                                     105
157 Pro Gln Leu Ala His Leu Phe Gly Ile Glu Tyr Leu Arg Ala Val Pro
160 Thr Ala Asp Ile Ser Gly Thr Leu Gly Leu Ser Ile Gly Val Phe Phe
                            135
163 Leu Ile Ile Phe Tyr Thr Ile Lys Ser Lys Gly Met Ser Gly Phe Val
                        150
                                             155
166 Lys Glu Tyr Thr Leu His Pro Phe Asn His Pro Leu Leu Ile Pro Val
                    165
                                         170
169 Asn Leu Ala Leu Glu Ser Val Thr Leu Leu Ala Lys Pro Val Ser Leu
170
                180
                                     185
172 Ala Phe Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu Leu Ile Phe Ile
                                 200
175 Leu Ile Ala Val Met Tyr Met Ala Asn Asn Phe Ala Leu Asn Ser Met
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        210
178 Gly Ile Phe Met His Leu Ala Trp Ala Ile Phe His Ile Leu Val Ile
179 225
                        230
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181 Thr Leu Gln Ala Phe Ile Phe Met Met Leu Thr Val Val Tyr Leu Ser
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205 acaacaagca ttagtgttat ttgcagtaga gtttggttac ttagaagaag tggacttaga 180
207 tcgtattggt tcatttgaat cagcactttt agagtatgct aaccataact atgctgattt 240
209 tatgcgtgag ttaacccaat ctggcaatta caatgatgaa attaaagagt cattaaaagg 300
211 cattttggat agcttcaaag caaacagtgc gtggtaagtt aacactttaa atggagagac 360
213 aaa <sup>l</sup>atg gca ggt gct aaa gag ata aga acc aaa atc gcg agt gta aaa
        Met Ala Gly Ala Lys Glu Ile Arg Thr Lys Ile Ala Ser Val Lys
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	Met	Arg	Lys		Gln	Glu	Arg	Met		Ser	Ser	Arg	Pro	-	Ser	Glu	
223				35					40					45			
								cac									552
	Thr	TTE	_	Asn	Val	ITe	Ser	His	Val	Ser	гàг	Ala		TTe	GТУ	Tyr	
227			50	4.4.4.				55					60				600
								cgc									600
231	гÀг		Pro	Pne	ьeu	vaı	70	Arg	GIU	val	гуѕ	ьуs 75	vaı	GIY	мес	ire	
	at t	65 ata	+ 00	303	ant.	aat	. •	ctt	+ ~+	aa+	aac			ata	220	++~	648
								Leu									040
235	80	vaı	Ser	1111	мэр	85	СТУ	пеп	Cys	Эту	90	пеп	ASII	vai	USII	95	
		222	act	ata	tta		gaa	atg	222	naa		222	gaa	222	aat		696
								Met									050
239	LIIC	шyз	1111	Val	100	ASII	014	1100	БУЗ	105	ттр	Lys	OLU	цуз	110	Val	
	tcc	att	саа	tta		tta	atc	ggt	tct		tet	atc	aac	+++		саа	744
		_		-	_			Gly									,
243				115				~-1	120	-1-				125		•	
	tct	tta	qqa		aaa	att	tta	acc	caa	gat	tca	gat	att	ggt	gat	act	792
		-						Thr		-							
247			130		-			135		-		-	140	-	-		
249	ccc	tct	gtt	gag	cag	tta	att	ggt	tca	gtc	aat	tct	atg	att	gat	gct	840
250	Pro	Ser	Val	Glu	Gln	Leu	Ile	Gly	Ser	Val	Asn	Ser	Met	Ile	Asp	Ala	•
251		145					150					155					
253	tat	aaa	aaa	ggg	gaa	gta	gat	gtt	gtg	tat	tta	gtt	tat	aac	aaa	ttt	888
254	Tyr	Lys	Lys	Gly	Glu	Val	Asp	Val	Val	Tyr	Leu	Val	Tyr	Asn	Lys	Phe	
255	160					165	•				170					175	
								cca									936
	Ile	Asn	Thr	Met		Gln	Lys	Pro	Val		Glu	Lys	Leu	Ile		Leu	
259					180					185					190		
								tta									984
	Pro	Glu	Leu	_	Asn	Asp	Glu	Leu	_	Glu	Arg	Lys	Gln		Trp	Asp	
263				195					200					205	to to .	- 4- 1-	1020
						_		aaa	-								1032
	Tyr	тте		GIU	Pro	Asp	Ala	Lys	val	ьeu	ьeu	Asp		Leu	ьеu	vai	
267	aat	+ > +	210	~ ~ ~	+ 0+	~~~	~++	215	<i>~</i>	~~~		~++	220	220	ctt	act	1080
								tat Tyr									1000
271	ALG	225	шеи	Giu	261	GIII	230	тут	0111	ALG	AIG	235	Giu	Hon	пси	1114	
	tct		caa	acc	act	cda		gtc	acc	ata:	aaa		gca	aca	gat	aac	1128
								Val									
275		Jiu		<u>.</u> u	2 3 AL CA	245					250				P	255	
		aat	aac	tta	att		gag	tta	caσ	tta		tat	aac	aaa	gct	cgt.	1176
								Leu									-
279		3			260					265				_	270	_	
	caa	gca	agt	att	aca	aat	gaa	tta	aat		att	gtt	gcc	ggt	gca	gca	1224
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Input Set : A:\Cpg.pto

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	ggtgcggtta ttgacgttga attcccacaa gatgcagtac caaaagtata tgatgcctta 13														1240		
	aatgttgaaa caggtttagt acttgaagtt caacaacaat taggtggtgg tgtagttcgc tgtatcgcaa tgggatcatc tgatggatta aaacgcggtt taagcgtaac aaatacgaat																
	_	_						-		_						ttgggt	
																cgtgcg	
																aaagtt	
			_	_	-			-		_		_				_	
	atcgacttag titgtccgtt tgcgaaaggg ggtaaagtag gtttattcgg tggtgcgggt 17 gtcggtaaaa ccgtcaatat gatggaatta atccgtaaca tcgcaattga gcactcaggt 17																
	tactctgtct ttgcgggggt aggtgagcgt acgcgtgaag gtaacgactt ctatcatgag 18																
	atgaaagact ctaacgtatt agataaagtg tctcttgttt atggtcaaat gaacgagcca 18																
	ccaggtaacc gtttacgtgt ggcattaaca ggcttaacta tggcggaaaa attccgtgat 194																
																1972	
	<210> SEQ ID NO: 4																
	<211> LENGTH: 289																
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					Past	teure	ella	muli	cocio	da							
318	<400	)> SI	EQUE	NCE:	4												
319	Met	Ala	Gly	Ala	Lys	Glu	Ile	Arg	Thr	Lys	Ile	Ala	Ser	Val	Lys	Ser	
320	1		-		5			_		10			•		15		
322	Thr	Gln	Lys	Ile	Thr	Lys	Ala	Met	Glu	Met	Val	Ala	Ala	Ser	Lys	Met	
323				20					25					30			
325	Arg	Lys	Thr	Gln	Glu	Arg	Met	Ser	Ser	Ser	Arg	Pro	Tyr	Ser	Glu	Thr	
326			35					40					45				
328	Ile	Arg	Asn	Val	Ile	Ser	His	Val	Ser	Lys	Ala	Thr	Ile	Gly	Tyr	Lys	
329		50					55					60					
331	His	Pro	Phe	Leu	Val	Asp	Arg	Glu	Val	Lys	Lys	Val	Gly	Met	Ile	Val	
332	65					70					75					80	
	Val	Ser	Thr	Asp	_	Gly	Leu	Cys	Gly		Leu	Asn	Val	Asn	Leu	Phe	
335					85					90					95		
	Lys	Thr	Val		Asn	Glu	Met	Lys		Trp	Lys	Glu	Lys	_	Val	Ser	
338				100				_	105	_				110		_	
	Val	Gln		Ser	Leu	Ile	Gly		Lys	Ser	Ile	Asn		Phe	Gln	Ser	
341	_	~ 1	115	_		_	en.	120	_	_	<b>~</b> 1	- 1	125	_	m)		
	Leu	_	ITe	Lys	lle	Leu		GIn	Asp	Ser	GLY		GLY	Asp	Thr	Pro	
344	0	130	<b>C</b> 1	G1	<b>T</b>	T1 -	135	0	**- 7	7	C	140	т1 -	7	7.1 -	M	
		Val	GLU	GIn	Leu		GLŸ	Ser	vaı	Asn		мет	TTE	Asp	Ala		
	145	T	C1	<b>C</b> 1	17 7	150	*** 7			T	155	m	7	T	Dha	160	
	ьуѕ	гаг	GTÄ	GIU		Asp	vaı	vaı	Tyr		vai	Tyr	ASI	ьуѕ	Phe 175	iie	
350	7 ~~	mb ~	Mot	Com	165	T	Dwo	W-1	T 011	170	T	Tou	T10	Dro		Pro	
	ASII	THE	เขยเ	180	GIU	тух	LIO	val	185	GIU	ьуѕ	теп	тте	190	Leu	FIO	
353	G1	Lou	Λας		λον	C1	Ton	C1 11		Δ~~	Ture	Gln	V = 1		Asp	ጥህድ	
355	GIU	neu	195	ASII	Азр	GIU	ьeu	200	GIU	Arg	тÃЗ	GTII	205	ттЪ	vsh	тАт	
	Tle	Tur		Pro	Aen	Δla	Luc		Len	Len	Aen	Aen		T.e.u	Val	Ara	
359	116	210	U L U	110	vah	ATO	215	val	me u	шeu	_	220	⊂u	⊥-cu	v 44 ±	• • • •	
		210					213				•	220					

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/545,199C

DATE: 07/19/2001 TIME: 10:36:35

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L:5738 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:5856 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:6788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:9357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72
L:11241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:11243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90
L:11976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:11977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102
L:12304 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103
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